

TECHNICAL DATA PACKAGE - ENGINEERING NOTES (ENs)

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NATIONAL STOCK NUMBER

6150-01-198-5052

PART NUMBER

L54465027072A-B

CRITICAL CHARACTERISTICS

1. Hardness critical item.
2. All wire shall conform to MIL-W-22759.

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WHEN CHECKED BELOW OR LISTED IN THESE NOTES, DEFINITIONS APPLICABLE TO THIS PRODUCT ARE OR HAVE:

(A) **ENGINEERING CRITICAL IN APPLICATION:** An item which requires special manufacturing process, controls, and testing of material or end items. Because of its use or application, failure to maintain the highest reliability of such an item could be catastrophic resulting in loss of life or serious injury, loss of a weapon system or extensive secondary damage, with direct impact on the capability to respond to a national emergency or to achieve wartime sustainability.

(B) **COMPLEX:** Items having quality characteristics not wholly visible (hidden characteristics), in the end product for which contractual conformance must be established progressively through precise measurements, tests or controls applied during purchasing, manufacturing, performance, assembly and functional operation either as an individual item or in conjunction with other items [FAR SUBPART 46.203(b)].

(C) **COMMERCIAL:** Described in commercial catalogs, drawings or industrial standards [FAR SUBPART 46.203(a), (1)].

(D) **CRITICAL CHARACTERISTICS:** Characteristics which, when defective, are likely to result in hazardous or unsafe conditions for individuals using, maintaining or depending upon the product, or, are likely to prevent performance of the tactical function of a major end item such as an aircraft, missile, space vehicle, engine or a major part thereof. (Derived from MIL-STD-1916).

(E) **MAJOR CHARACTERISTICS:** Characteristics (other than critical or minor), which, when defective, are likely to result in failure or to reduce the usability of the product or a major end item for its intended purpose. (Derived from MIL-STD-1916).

(F) **MINOR CHARACTERISTICS:** All characteristics not designated as critical or major but for which full conformity is required.

THIS PRODUCT HAS BEEN DETERMINED TO BE OR CONTAINS (AS CHECKED BELOW):

- ☒ Engineering critical in application.
- ☒ Critical characteristics.
- ☐ Major characteristics.
- ☒ Minor characteristics, all excepting critical and major.
- ☐ Complex.
- ☐ Available as a commercial product.

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When materials, processes or components are to be obtained from directed sources as indicated herein or in the specifications, alternate sources may only be utilized upon prior approval by the contracting officer of this procuring activity as a deviation.

Bidders shall notify this procuring activity at the time of quotation of any drawing, specification or standard which is of more current data revision than those shown on the data listing or in these engineering notes. Determination of acceptability of the more currently dated data will be made by the responsible engineering office of this procuring activity.

Lower tier specifications listed in or referenced by first tier specifications may not be shown on the data lists or engineering notes accompanying this contract but are nonetheless required by this contract for compliance. Exceptions would occur only when such lower tier requirements have been specifically waived or substitute specifications/requirements are designated herein.

Reports, process sheets, inspection methods sheets and all other documents required by specifications imposed by this contract for contractor compliance which were previously required to be submitted to a prime design contractor shall be held at that facility for review by government personnel.

When prime design source specifications require or provide for participation by that prime source quality, manufacturing, laboratory or engineering support services, these requirements or provisions do not apply when the contract was issued by this procuring activity. For these services or direction pertaining thereto, contact the cognizant government contract administration office or this procuring activity for assistance.

The contractor is responsible for assuring that all dimensions, conditions, tests and test results identified in these engineering notes, applicable drawings, specifications and contract quality requirements are met by themselves and their suppliers. This requirement applies to all characteristics whether those characteristics have been specifically designed as being critical, major or are those minor characteristics not specifically designated as such.

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PROCESS DATA REQUIREMENTS (APPLIES WHEN CHECKED):

- ☐ Prior to beginning of manufacture, the contractor will notify the engineering office of this procuring activity of all manufacturing process and processing procedures intended for use in production of this product. Once these processes are established, no changes shall be made without prior approval of the engineering office of this procuring activity.

SERIALIZATION OF PARTS (CHECK WHEN APPLICABLE):

- ☐ Serialization of each part/assembly (contract end item), is required.

STABLE BASE DRAWING (CHECK WHEN APPLICABLE):

- ☐ When the use of stable base drawings are required, the following shall apply:
- A. Stabilize by allowing the stable base drawing to rest flat and unrestrained on a flat surface overnight at room temperature prior to use.
 - B. Do not stretch or otherwise apply stress.
 - C. Check the dimensional accuracy of the grid lines. The dimension between adjacent grid lines must be within ± 0.005 inch. The grid lines shall be measured vertically, horizontally and diagonally, to insure that the grids are within a tolerance of ± 0.005 inch. The tolerance is accumulated over the length and width of the stable base drawing.
 - D. Trammel points shall be measured to within $\phi .010$
 - E. When rolling stable base drawings, do not roll less than 3 inches in diameter.
 - F. If the above tolerance points prove to be inaccurate, record the discrepancies immediately and notify in writing OC-ALC/PKXDA and the Administrative Contracting Officer (ACO).

Table 1-3. Changing Kapton Wire to Tefzel Wire

KAPTON WIRE TYPE	TEFZEL WIRE TYPE	WIRE SIZE	TEFZEL PART NUMBER	DESCRIPTION
AAB	BBAB	26	M27500-26SN2U00	2 Twist, M22759/42 Basic Wire
ABB	BBBB	24	M27500-24SN2U00	2 Twist, M22759/42 Basic Wire
ABC	BBBC	24	M27500-24SN3U00	3 Twist, M22759/42 Basic Wire
ABD	BBBD	24	M27500-24SN4U00	4 Twist, M22759/42 Basic Wire
BCB	MBCB	22	M27500-22SM2U00	2 Twist, M22759/41 Basic Wire
BCC	MBCC	22	M27500-22SM3U00	3 Twist, M22759/41 Basic Wire
BCD	MBCD	22	M27500-22SM4U00	4 Twist, M22759/41 Basic Wire
BCE	MBCE	22	M27500-22SM5U00	5 Twist, M22759/41 Basic Wire
BDB	MBDB	20	M27500-20SN2U00	2 Twist, M22759/41 Basic Wire
BDC	MBDC	20	M27500-20SM3U00	3 Twist, M22759/41 Basic Wire
BDD	MBDD	20	M27500-20SM4U00	4 Twist, M22759/41 Basic Wire
BEB	MBEB	18	M27500-18SM2U00	2 Twist, M22759/41 Basic Wire
BFB	MBFB	16	M27500-16SM2U00	2 Twist, M22759/41 Basic Wire
BFC	MBFC	16	M27500-16SM3U00	3 Twist, M22759/41 Basic Wire
BFD	MBFD	16	M27500-16SM4U00	4 Twist, M22759/41 Basic Wire
BGD	MBGD	14	M27500-14SM4U00	4 Twist, M22759/41 Basic Wire
BHB	MBHB	12	M27500-12SM2U00	2 Twist, M22759/41 Basic Wire
BHC	MBHC	12	M27500-12SM3U00	3 Twist, M22759/41 Basic Wire
BHD	MBHD	12	M27500-12SM4U00	4 Twist, M22759/41 Basic Wire
CBB	BCBB	24	M27500-24SN2N23	2 Shld, XLETFE Jacket, M22759/42 Wire
CBC	BCBC	24	M27500-24SN3N23	3 Shld, XLETFE Jacket, M22759/42 Wire
CBD	BCBD	24	M27500-24SN4N23	4 Shld, XLETFE Jacket, M22759/42 Wire
CBE	BCBE	24	M27500-24SN5N23	5 Shld, XLETFE Jacket, M22759/42 Wire
CJA		CX	LE572-0035-0002	Avionics, 75 ohm Triax
DCA	MCCA	22	M27500-22SM1N23	1 Shld, XLETFE Jacket, M22759/41 Wire
DCB	MCCB	22	M27500-22SM2N23	2 Shld, XLETFE Jacket, M22759/41 Wire
DCC	MCCC	22	M27500-22SM3N23	3 Shld, XLETFE Jacket, M22759/41 Wire
DCD	MCCD	22	M27500-22SM4N23	4 Shld, XLETFE Jacket, M22759/41 Wire
DCE	MCCE	22	M27500-22SM5N23	5 Shld, XLETFE Jacket, M22759/41 Wire
DCG	MCCG	22	M27500-22SM7N23	7 Shld, XLETFE Jacket, M22759/41 Wire

Table 1-3. Changing Kapton Wire to Tefzel Wire - (Continued)

KAPTON WIRE TYPE	TEFZEL WIRE TYPE	WIRE SIZE	TEFZEL PART NUMBER	DESCRIPTION
DDA	MCDA	20	M27500-20SM1N23	1 Shld, XLETFE Jacket, M22759/41 Wire
DDB	MCDB	20	M27500-20SM2N23	2 Shld, XLETFE Jacket, M22759/41 Wire
DDC	MCDC	20	M27500-20SM3N23	3 Shld, XLETFE Jacket, M22759/41 Wire
DDD	MCDD	20	M27500-20SM4N23	4 Shld, XLETFE Jacket, M22759/41 Wire
DDG	MCDG	20	M27500-20SM7N23	7 Shld, XLETFE Jacket, M22759/41 Wire
DFB	MCFB	16	M27500-16SM2N23	2 Shld, XLETFE Jacket, M22759/41 Wire
DFC	MCFC	16	M27500-16SM3N23	3 Shld, XLETFE Jacket, M22759/41 Wire
DFD	MCFD	16	M27500-16SM4N23	4 Shld, XLETFE Jacket, M22759/41 Wire
DHB	MBHB	12	M27500-12SM2U00	2 Twist, M22759/41 Basic Wire
DHD	MBHD	12	M27500-12SM4U00	4 Twist, M22759/41 Basic Wire
DJA		28	LE572-0034-0003	CJA W/bondable T/coat, Coax
→ EHC	MBHC	12	M27500-12SM3U00	3 Twist, M22759/41 Basic Wire
EFB	MBFB	16	M27500-16SM2U00	2 Twist, M22759/41 Basic Wire
EAE	MBFE	16	M27500-16SM5U00	5 Twist, M22759/41 Basic Wire
ECD	MBCD	22	M27500-22SM4U00	4 Twist, M22759/41 Basic Wire
EDB	MBDB	20	M27500-20SM2U00	2 Twist, M22759/41 Basic Wire
EDC	MBDC	20	M27500-20SM3U00	3 Twist, M22759/41 Basic Wire
EDD	MBDD	20	M27500-20SM4U00	4 Twist, M22759/41 Basic Wire
ECB	MBCB	22	M27500-22SM2U00	2 Twist, M22759/41 Basic Wire
ECC	MBCC	22	M27500-22SM3U00	3 Twist, M22759/41 Basic Wire
FAB	BBAB	26	M27500-26SN2U00	2 Twist, M22759/42 Basic Wire
FAC	BBAC	26	M27500-26SN3U00	3 Twist, M22759/42 Basic Wire
FAD	BBAD	26	M27500-26SN4U00	4 Twist, M22759/42 Basic Wire
FAE	BBAE	26	M27500-26SN5U00	5 Twist, M22759/42 Basic Wire
→ FBB	BBBB	24	M27500-24SN2U00	2 Twist, M22759/42 Basic Wire
FBC	BBBC	24	M27500-24SN3U00	3 Twist, M22759/42 Basic Wire
FBD	BBBD	24	M27500-24SN4U00	4 Twist, M22759/42 Basic Wire
FBE	BBBE	24	M27500-24SN5U00	5 Twist, M22759/41 Basic Wire
FBF	BBBF	24	M27500-24SN6U00	6 Twist, M22759/42 Basic Wire
→ GCA	MCCA	22	M27500-22SM1N23	1 Shld, XLETFE Jacket, M22759/41 Wire

Table 1-3. Changing Kapton Wire to Tefzel Wire - (Continued)

KAPTON WIRE TYPE	TEFZEL WIRE TYPE	WIRE SIZE	TEFZEL PART NUMBER	DESCRIPTION
GCB	MCCB	22	M27500-22SM2N23	2 Shld, XLETFE Jacket, M22759/41 Wire
GCC	MCCC	22	M27500-22SM3N23	3 Shld, XLETFE Jacket, M22759/41 Wire
GCD	MCCD	22	M27500-22SM4N23	4 Shld, XLETFE Jacket, M22759/41 Wire
GCE	MCCE	22	M27500-22SM5N23	5 Shld, XLETFE Jacket, M22759/41 Wire
GDB	MCDB	20	M27500-22SM2N23	2 Shld, XLETFE Jacket, M22759/41 Wire
GDC	MCDC	20	M27500-22SM3N23	3 Shld, XLETFE Jacket, M22759/41 Wire
GFA	MCFA	16	M27500-16SM1N23	1 Shld, XLETFE Jacket, M22759/41 Wire
GFB	MCFB	16	M27500-16SM2N23	2 Shld, XLETFE Jacket, M22759/41 Wire
GHB	MCHB	12	M27500-12SM2N23	2 Shld, XLETFE Jacket, M22759/41 Wire
HAB	BCAB	26	M27500-26SN2N23	2 Shld, XLETFE Jacket, M22759/42 Wire
HAC	BCAC	26	M27500-26SN3N23	3 Shld, XLETFE Jacket, M22759/42 Wire
HAD	BCAD	26	M27500-26SN4N23	4 Shld, XLETFE Jacket, M22759/42 Wire
HAE	BCAE	26	M27500-26SN5N23	5 Shld, XLETFE Jacket, M22759/42 Wire
HBA	BCBA	24	M27500-24SN1N23	1 Shld, XLETFE Jacket, M22759/42 Wire
HBB	BCBB	24	M27500-24SN2N23	2 Shld, XLETFE Jacket, M22759/42 Wire
HBC	BCBC	24	M27500-24SN3N23	3 Shld, XLETFE Jacket, M22759/42 Wire
HBD	BCBD	24	M27500-24SN4N23	4 Shld, XLETFE Jacket, M22759/42 Wire
HBE	BCBE	24	M27500-24SN5N23	5 Shld, XLETFE Jacket, M22759/42 Wire
HBF	BCBF	24	M27500-24SN6N23	6 Shld, XLETFE Jacket, M22759/42 Wire
HBG	BCBG	24	M27500-24SN7N23	7 Shld, XLETFE Jacket, M22759/42 Wire
JBA	BABA	24	M22759/42-24-9	1 Cond 600V Nickel Coated Copper
KCA	MACA	22	M22759/41-22-9	1 Cond 600V Nickel Coated Copper
KDA	MADA	20	M22759/41-20-9	1 Cond 600V Nickel Coated Copper
KEA	MAEA	18	M22759/41-18-9	1 Cond 600V Nickel Coated Copper
KFA	MAFA	16	M22759/41-16-9	1 Cond 600V Nickel Coated Copper
KGA	MAGA	14	M22759/41-14-9	1 Cond 600V Nickel Coated Copper
KHA	MAHA	12	M22759/41-12-9	1 Cond 600V Nickel Coated Copper
LAA	BAAA	26	M22759/42-26-9	1 Cond 600V Nickel Coated Copper
LBA	BABA	24	M22759/42-24-9	1 Cond 600V Nickel Coated Copper
MCA	MACA	22	M22759/41-22-9	1 Cond 600V Nickel Coated Copper

Table 1-3. Changing Kapton Wire to Tefzel Wire - (Continued)

	KAPTON WIRE TYPE	TEFZEL WIRE TYPE	WIRE SIZE	TEFZEL PART NUMBER	DESCRIPTION
→	MDA	MADA	20	M22759/41-20-9	1 Cond 600V Nickel Coated Copper

Table 1-3. Changing Kapton Wire to Tefzel Wire - (Continued)

KAPTON WIRE TYPE	TEFZEL WIRE TYPE	WIRE SIZE	TEFZEL PART NUMBER	DESCRIPTION
MEA	MAEA	18	M22759/41-18-9	1 Cond 600V Nickel Coated Copper
MFA	MAFA	16	M22759/41-16-9	1 Cond 600V Nickel Coated Copper
MHA	MAHA	12	M22759/41-12-9	1 Cond 600V Nickel Coated Copper
NBB		24	LE572-0003-0002	2S Data Link, MIL-W-22759/23
NSB		24	LE572-0003-0008	2S Data Link, MIL-W-22759/31
PBX		24	LE572-0036-0002	2 Tw Sh Intercom Microphone
QCA		22	LE572-0011-0002	1 Shld Liquid Qty, MIL-W-22759/10
RCA		22	LE572-0011-0003	1 Shld Liquid Qty, MIL-W-22759/10
RDB		20	LE572-0012-0001	2 Shld Thermocouple
SFA		16	L572C2001/31163	1 Shld Dbl Shld
SFC		16	L572C2001/31163	3 Shld Strobe Lights
TDA		22	LE571-0001-0006	1 Cond Fire Zone
UDB		22	M27500-22JF2U00	2 Twist Fire Zone
UDC		22	M27500-22JF3U00	3 Twist Fire Zone
UDD		22	M27500-22JF4U00	4 Twist Fire Zone
VDB	FSDB	22	M27500-22JF2C07	2 Shld Fire Zone
VDC	FSDC	22	M27500-22JF3C07	3 Shld Fire Zone
WFA		16	LE571-0007-0001	1 Cond Fire Zone
YDB		20	LE572-0013-0001	2 Shld Low Noise, MIL-W-22759/11
YCB		22	LE572-0013-0002	2 Shld Low Noise, MIL-W-22759/11
AAAH		12	M22759/10-12-9 2XTNY-12-3728	1 Cond, Generator Feeder
ABCA		22	M22759/12-22-95 LE571-0005-0003	1 Cond, Panels & Boxes, Teflon
ABDA		20	M22759/12-20-95 LE571-0005-0004	1 Cond, Panels & Boxes, Teflon
ABEA		18	M22759/12-18-99 LE571-0005-0005	1 Cond, Panels & Boxes, Teflon
ABFA		16	M22759/12-16-96 LE571-0005-0006	1 Cond, Panels & Boxes, Teflon
ABGA		14	M22759/12-14-95 LE571-0005-0007	1 Cond, Panels & Boxes, Teflon